



Stem Cells and Tissue Engineering (SpringerBriefs in Electrical and Computer Engineering)

Mirjana Pavlovic, Bela Balint

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Stem cells are the building blocks for all other cells in an organism. The human body has about 200 different types of cells and any of those cells can be produced by a stem cell. This fact emphasizes the significance of stem cells in transplantational medicine, regenerative therapy and bioengineering. Whether embryonic or adult, these cells can be used for the successful treatment of a wide range of diseases that were not treatable before, such as osteogenesis imperfecta in children, different forms of leukemias, acute myocardial infarction, some neural damages and diseases, etc.

Bioengineering, e.g. successful manipulation of these cells with multipotential capacity of differentiation toward appropriate patterns and precise quantity, are the prerequisites for successful outcome and treatment. By combining in vivo and in vitro techniques, it is now possible to manage the wide spectrum of tissue damages and organ diseases. Although the stem-cell therapy is not a response to all the questions, it provides more and more answers every day.

Stem Cells and Tissue Engineering is a concise review on the functional, phenotypic, regenerative, transplantational and curative aspects of a stem cell's entity. It is critical and encouraging at the same time, providing truthful and appropriate samples from the practice and research that can lead toward optimal use of this immense source of adjuvant and curative therapy in human pathology. Written by a clinician and a researcher, who are currently teaching what they are doing, it is recommended as a teaching tool along with an original textbook.

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Stem Cells and Tissue Engineering (SpringerBriefs in Electrical and Computer Engineering) can be one of your beginner books that are good idea. We recommend that straight away because this reserve has good vocabulary that can increase your knowledge in vocabulary, easy to understand, bit entertaining but still delivering the information. The author giving his/her effort to get every word into delight arrangement in writing Stem Cells and Tissue Engineering (SpringerBriefs in Electrical and Computer Engineering) nevertheless doesn't forget the main stage, giving the reader the hottest as well as based confirm resource information that maybe you can be among it. This great information can drawn you into brand-new stage of

crucial thinking.

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